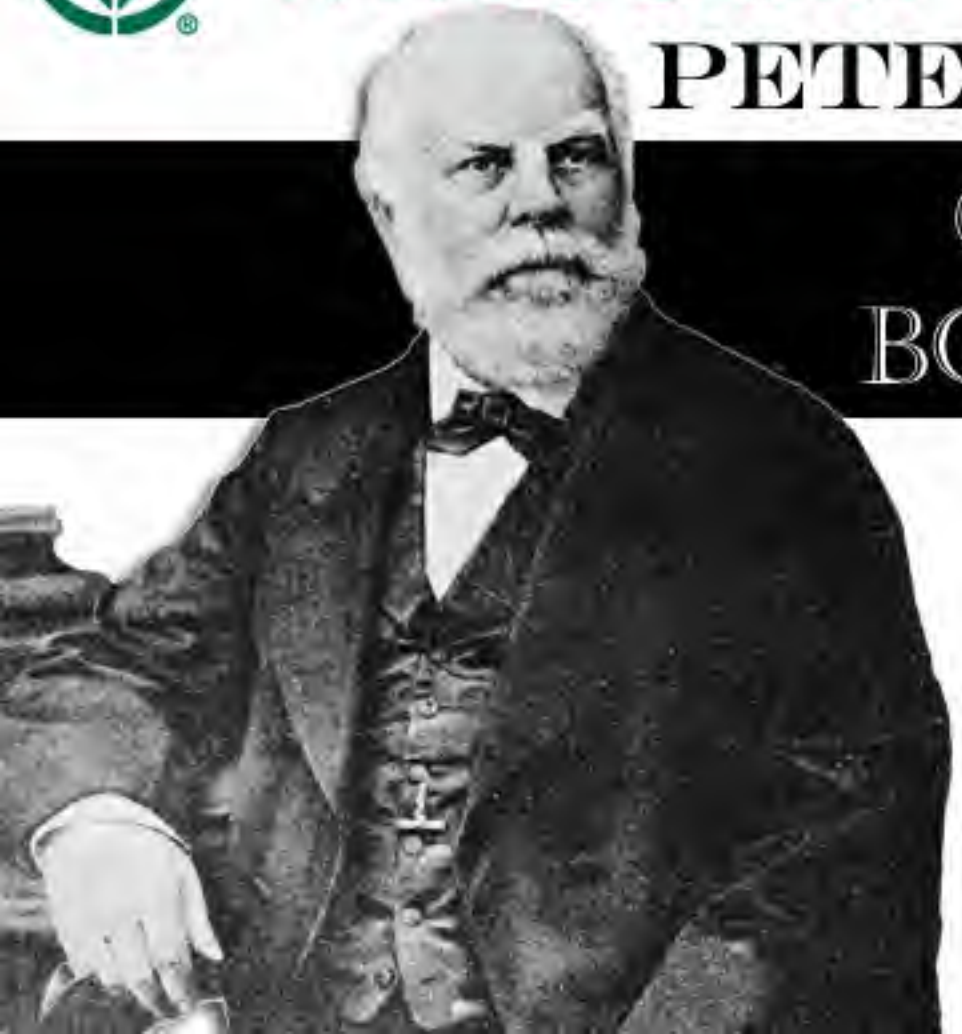
Missouri Botanical Garden
Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Leptocaulis Torr & Gr. = Hb Durand

30 L. ~~Bucklyi~~ (S. stipendulus Buckley in Proc. Acad Phila 1862 p. 8.) ~~L. Leptocaulis Torr & Gr. incl~~ caulibus caespitosis, erectis (sp. 1 hanc.) pedalibus & gracilibus corymbosim ramosis, pistillos; foliosis; foliis planis carnosis brevissimis, capitulis subsessilibus (4-5) ~~4-5~~ floris spathaceo-bracteatis 3-6 floris; ovariis ovatis aristatis, floribus sub ~~pedicellato~~ plerumque depresso ovato lanceolatis aristatis - sepalis aequalibus ~~ex~~ exterioribus parce brevissimis, staminibus 3-6 et capsulam obovatam brevissime stipitatam ~~stigmatibus~~ expansis obovatis ~~ovatis~~ stylo persistentibus subaequantibus, glabris; seminibus quarta parte superantibus, ~~interne~~ interne fl. laevibus ~~granulatis~~ brevissime

costato-lineolatis.

(Western Texas, Lindheimer; Arkansas Leavenworth!) Wright, Buckley, & the very graceful ~~pl~~ white-flowered light grass green, 6 or 8 ~~to~~ to 12 or 14 inches high, grow in dense tufts from an apparently perennial rhizome, & the ~~flowers~~ a single head, rarely 2 or 3 (the secondary heads smaller) heads - fruit 4-5 lines - stem (rarely of 3-6 or 7, usually about 5) light green flowers; flowers scarcely 2/12 lines long, remarkable for the elongated sharp points of the sepals and the irregular number of stems; ~~the~~ 2 rather the 3 + sometimes only 3, the 4 or 5, very rarely 6, and then always some of the stems very depressed, with very long & slender fruit, but extremely small anthers; & rarely occasionally the anthers of the external stems are nearly as long as the filament; the only species which I have noticed such an irregularity. — Seeds very similar to those of D. sanguinalis, 0.22 l. long, with about 6 strong & sharp ribs visible on one side.

Buckley.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9915

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

31 *J. marginatus* Rostk. Mon. 38 t. 2 f. 2. A well known species, which grows all over the Eastern ~~United States~~ Interior States as far as woodlands extend, and down to Texas, but has not been found in the Western plains or the Pacific Slope. It is distinguished from all the species by its 3 purple or brown anthers, which usually exceed the external segments, and are turned outside at maturity of fruit; ~~Differs from the~~ it further differs from the external ones segments being much shorter than the internal ones, obtuse & mucronate only. The ovate obtuse ovary with almost sessile stigmas of the same length as the subglobose obtuse fruit mucronate capsule; I find the seeds quite variable in size & form; they are always strongly apiculate, or almost caudate, and strongly ribbed, with four 4 or 5 at most 6 ribs visible on one side; ~~cross~~ lenticulate or rarely reticulate; ~~The root fascicled~~ They are usually Glauca Cascadensis or obliquely fusiform, but in Lindh. N. Am exsicc. 193, which had been named *I. heterandrus* they are very short & thick, ovate, obtuse, abruptly apiculate; their length varies from 0.22 to 0.33 & their thickness from 1/8 to 1/4 their length. *I. aristulatus* Michx 1.191 or *aristatus* Pers syn. 1.385 is exactly the same plant; *I. Bicolor* Ill. Bot. 1.407 & *I. heterandrus* Nutt. N. A. ~~Fl~~ Trans Am Phil Soc. V. 153. are forms of the same with 2 or 3 flowers only & the head. *I. cylindricus* Curtis Bill Journ. 44, p. 83, Stend Gl. 2.304 is a form with heads elongated into spikes of 6 lobed by 3 l. in diam, sterile below; only the uppermost flowers being fruit, the external outer segments are almost as long as the inner ones, the stamens rostrate & the anthers oval & very small.

X Stalk long and the inner as Elliott says but all the fruit of the specimens I have seen short.

0 1 2 3 4 5 6 7 8 9 10 cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9916

Both the following a few flowered (2-3) var. bifloras
with a drooping pedicle & flat flowers & heads
more outward; the 1½-3 feet high or drooped
The ordinary form, with erect pedicles & larger heads, which has usually 5-8 flowers; another
& the with shorter stem, (1-1½ feet high) & fewer (2-6 or 8) larger heads, with (8-12 flowered
heads; all these forms run into one another.

α. vulgaris	The common form in every state
β. biflorus	In Delaware (not Wilmington) Mexico
γ. paucicapitatus	Long Island & Short Hills New Jersey & Rhode Island

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

33. J. articulatus, Linn or that form of the Linnean species which has been distinguished as J. lampocarpus, Ehrh. and which is common in northern Europe, has a very limited range in North America; all the specimens I have seen from the New England states (Boston, Pickering Amherst, Tuckerman, and Providence & Nantucket, Olney) and from Western New York (Penn Yan, Eastwell) & Virginia and New foundland. — Stem densely cespitose, with us generally erect, about a foot high; panicle spreading, sepals nearly equal, or inner ones slightly longer, lanceolate acute and mucronate or inner ones slightly obtuse and mucronate; stamens about two thirds the length of the sepals and anther as long as filament, ovary acuminate, tapering into a short style about half its length; capsule longer than sepals, acute or even rostrate, rarely shorter, obtusish and mucronate. (in Europe not in America) — Seed obovate, obtuse at the apex, acute at the base and at both strongly spiculate, 7 or 8 ribs visible, reticulate, with areae dingy cinnamon chocolate; 0.3 l. long or a little less, and about half as much in diam.

Fig. 33

9917

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

3b *L. alpinus* Villars / *L. fuscovater* Schreb /
L. affinis R. Brown *L. Richardsonianus* Hook. & Schlt.
L. pilosus Nutt. in Trans. Phila. / *L. articulatus* var pilosus
Gray Man ed. 2. 482. *L. elongatus* Vasey in Herb.

This form ought perhaps not be separated from *L. articulatus*
with which name I would comprise both this and the last
but with us it is easily distinguished and occupies
a geographical range distinct from each, keeping the
separate for the present, and I believe the latter to be
of Europe, where both forms are much more abundant.

Stems erect from a creeping rootstock, 10–16 inches high
(except in extreme northern forms); leaves of the margin
panicle strictly erect and much elongated, greenish
light brown; scales oblong obtuse, mucronate and raspdt,
equal or exceeding the rounded ovary with very short
ones; raceme as long as last; scales as long or a little longer than the
as long, obtuse, mucronate,
serrulate-ciliolate; seed ⅓ oblong-cuneate, rarely obovate,
with a blunt apex, 0.30–0.35 l. long;

Very similar to last, but usually more slender —

The next alpine form of Villars, which is the
same as the plant from Arctic coast, is only a
few inches high, bears very few dark brown heads in
the panicle and has the slenderest and longest seed,

Our American plant is distinguished from the former
by its brown stems and paler flowers and fruit,
This has not the aspect of Swedish
formly as *L. sylvaticus*, and as *L. arcuiflorus*, Lake as
L. alpinus var *Kotzebuei*. —

So far as this species is confined to the
northeastern parts of the Continent, from Labrador
and Ontario Lakes, it's most eastern locality
Sartwell,

9918

where it meets the eastern Laramie, north
ward to the Hudson by regions, and the Austin shows
and westward along the great Lakes, to northern Illinois
Iowa, & the upper Platte & Hayden, Colorado Hall & Harbord
5-58 and beyond the Rocky Mountains to Fort
Colville & Lyall,

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

35. *L. militaris* Bigelow, Fl. Bost. ed. 2 (1824) p. 139.

"discovered by Mr Greene at Tewksbury" and since found.
from Maine, Chamberlain, Blake to Massachusetts, South and to the Prov. Mts — Pa
(T. Green, New Jersey, C. J. Parke, Maryland, A Conway,
and if there is an error in the label, even in Alabama
(Drummond). —

The plant is stout (2 - 3¾ feet high from a creeping rootstock and are
well marked by its style very long leaf, which
usually overlapping the inflorescence, is usually
followed by a second one, which is reduced to a mere
sheath. The deranged with many with the crowded
commonly smaller exile entirely flowers [illegible] 2-5,
usually dark 3 nerved long; the heads usually 5-12 flowered,
but in a Maryland specimen 15-25 flowered, flowers
¼ to ⅓ long, sepals lanceolate outer ones
subulate and even awl-shaped, usually a little shorter than
the acute inner ones; stamens 6, two thirds as long as sepals
, linear anthers a little longer the filaments,
stigmas exserted, as long as the style arms
together with the (style) distinct, erect, sepals
sharply triangular ovate, (rostrate awned), equally
or slightly exceeding the sepals, one celled; seeds
about obovate colorless
commonly [illegible] & thick ½, 0.25 - 0.30 l. long and
⅓ as thick; about 8-10 nerved, the nerves naked
lines; [illegible]

Dr Robbins sends a specimen from the
Roxbury Mt Uxbridge where it grows in streams
of hair like plating, with an inner mass
of 1 or 1½ foot long, from the
older parts of the horizontal rhizome, apparently the base of the decayed
stems of last year, — It might be a variety
of *A. canadensis capillifolius*.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9919

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN HERB.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

36 S. Elliottii; Chapman Fl. South. States 494.

Culms caespitose, erect, [illegible] tenuia [illegible] exserta; panicle (1–2 pulvinus) simple or compound sub patente; capitula 3–9 flora, globulosa; [illegible] involucrata; [illegible] stamina 3 et ovarii [illegible] [illegible] capsulam late obovatam obtuse [illegible] [illegible] [illegible]

9920

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9921

37. J. pallescens Lam Enc. 3. 268. caulibus
caespitosis plurimis erectis sem rare decumbentibus basi plerumque effusa
plerumque simplicibus capitula paucis vel multiflora, pallide
sepulis lanceolatis subacutis acutiusculis, plerumque
subaequalibus, staminibus 3 dimidio s. tertia parte superantibus,
antheris polline copiosis subsagittis ovario oblongo
basi stipitato s. rarius acutato subbrevibus inclusis;
capsula (pallida) primitus mucronata s. acutata,
demum oblonga acuta s. excedente.
seminibus pallidis obovatis subplanatis utrinque
haud acutis, areis lucidis reticulatis. —
Var d. J. debilis; caulibus erectis s. decumbentibus
radicantibus ve, debilibus (spithamaeis sesquipedalibus debilibus
capitulis paucis (3–6) floris; floribus majoribus, capsulis
exsertis. acutis brevius mucronatis exsertis. — J. acuta
Michx I. 193 J. pedunculata, de Vaux 136, Kunth 3. 335 Elliott I. 409;
non Gray Man. acut. am. plant. J. debilis Gray Man.
ed. 2. 481

Var β. diffusissima; caulibus erectis 2–3 pedalibus
paniculae ultra plerumque decompositae, ramis filiformibus
elongatis; capitulis 2–7 floris; pallidis sepulis angustioribus
staminibus fere dimidio superantibus, ovario oblongo
elliptico stipitato longiore; capsula lucida
lanceolata acuta, valvam plerumque duplo superante
J. diffusissima. Buckley A. Tex l. c. p. 9. —

Var γ. robustior. caulibus 2½–4 pedalibus
robustis, erectis foliis, pro elongatis robustis,
paniculae ultra decompositae, patulis, capitulis 5–
8 floris, floribus majusculis, antheris filamento aequilongis,
capsula ovata obtusa, sepalis ovatis obtusis paulo excedente.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

δ. patens: caulis erectis pedalibus (12 pedalis)
~~robus~~ gracilibus s. subrobustis; foliis simplicibus
s. compositis, ~~diffi~~ petalis; capitulis laxis s.
multifloris, disco ~~s~~ stramineo fusco; floribus
majoribus, ~~s~~ papulis aequalibus s. non extrorsis
paulo longioribus; capsulae ~~p~~ prismatico-obtusangulae
~~obtusangulae~~ mucronatae aequalibus, nervis ~~in~~
convexis, costis filanto multoseriatis; ovario
costato acuto. — D. patens Elliott Sk. 2. 340 pro parte. —

All over the Eastern and Southern states from
Massachusetts (to the Red Grande and Michigan) and
westward to Missouri and west Texas; var α. I have
seen only from Pennsylvania, Schweinitz, Moser, Porter, Ohio, Lea
Kentucky, Short (A Gray's original D. debilis) Mississippi,
E. Hilgard, S. Carolina, Ravenel, but it probably more
extensively distributed; var β. Northern Texas,
Buckley; var γ. Mississippi Valley, Missouri, Geyer, Read,
Vasey, Engelmann, Missouri, Engelmann, to Louisiana,
Hale; var δ. The most common and ordinary form,
from Massachusetts, to Michigan, Illinois & Missouri,
and southward
to Florida, the Red Grande & west Texas; apparently
not 66. This is one of our most variable plants, the
extreme forms of which are readily taken for
distinct species, where the intermediate ones are
wanting. I have not yet been able to compare
Lamarck's original specimens, but rely on his
description, and on that of Meyer who has examined
it and declares it identical with Michaux' specimens
which, also on La Harpe's description of the latter which
however is not as full as desirable. Both authors
had a form with few flowered heads — a view,

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Polycarpon

consulting, now deposited, of Paris
spirit of my old and highly esteemed friend, Jacques Gay.
La Harpe was the first to give full descriptions of these
plants and all their organs, and only since the
date of his publications we find similar extended
records, instead of the short diagnoses in Meyers
works, e.g. in "the Enumeratio Hexandriarum", which were
published 1837. Having not been able to compare Meyers'
original with
types, I have relied on the critical descriptions of
Reisen of La Harpe, especially in regard to the occurrence
and polymorphaley, (where doubts had existed. Such as
specify)

The habit is slender, and slender often almost
filiform, and seeds only four or sometimes more
crowded (about 6 to 8 on each placenta) 4or6 to 18 or 20 in each.
high; leaves slender, almost setaceous, scarcely conspicuously
and incompletely petioled knotted; the panicle
is very diffusely developed in different specimens; sometimes
it is comparatively small 2 or 3 inches long, or nearly
spanky, with more crowded flowers, but mostly
(at least in the herbarium specimens expanded by me)
the panicle is 4 or even 6 inches long, the flowers
scattered along the fine spindly or recurved branches.
Flowers green with a reddish tinge, especially on the
immersed sepals, usually 1.0 to 1.3 lines long and generally single.
sepals obtuse or sometimes mucronate, outer ones ovate
generally shorter than the inner ones; in a Lake Superior
specimen collected by Dr Robbins "the flowers are only
0.8 line long — & all the sepals broadly oval, obtuse.
Stamens as long about the length of the outer sepals;
anthers & always longer than the filament, sometimes elongated
twice as long, sometimes only & twice as long; styles
as long as the ovary; the capsule ought not
to have been described as triquetro-ovate, mucronate as
Meyer and (copying) after him, La Harpe did, but it is, as Gray has it,
"tapering" and completely "ovoid", the latter

9826

placentae ~~occupying~~ only on the lower thirds or fourths of the valves.
Seeds 0.25 lin. long, deltoid-ovoid, dorsally carinate, with
transversely rhomboid areae.

I have already, on page 426 (see above) spoken of the
great morphological importance of this plant
which connects the one flowered with the head-
flowered species, and shows that there is no
other difference between the two than that in the former
the head is reduced to a single terminal flower,
while in the latter 2 to an indefinite number are
~~anticipetally~~ developed centripetal order.
In our species the second flower is usually
underdeveloped, but its place is occupied by a bud,
which often also equally later in the season is
developed into a leafy extension, sometimes
the first flower already is replaced by a leafbud,
and in rare instances the leafbud makes its
appearance between the flowers. I have never seen
more than two flowers, nor more than one leafbud
in a head. Botanists who have the opportunity,
ought to investigate the variations
in the inflorescence of this plant, according to
locality, season, and other circumstances.
I cannot distinguish D. Chapmanii D. abortivus
from the northern plant, except by its resemblance
thick rhizome and its stouter, stem and leaves; the flowers
are absolutely identical and fruit I have not seen.

With some hesitation I add as a procumbent and
radical variety D. nobilis, which does not seem to exist in American
herbaria; La Harpe who has seen it in (Michaux Herb.) gives a full
description, the essential parts of which are republished above.
The flowers are said to equally like those of D. pelorianum and
there is another, in the not withstanding the different habit
that alone would not be sufficient,
but the smaller number of stamens, if correct, and
fruit and seed is unknown; the two flowered flowers terminating
the branches, evidently an extremely depauperate inflorescence,
Hooker, Fl. Bor. Am. 2. 191 refers it to D. elegans which with its
spurred calyx & calycine — but that is also a Carolina species.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

(1823)

32. *L. pedocarpus* E. Mey Lyn Lugd p. 30. La Harpe Mong 124. Knuth En. 3.333 non Gray, Man et auct. Amer.

rhizomate horizontali, tenui, pallido; caulibus (ut videtur et ultra sesquipedalibus) teretiusculis, parce foliis tertiusculis inferne nodulosis; praeterea glabra elongata, ad florigera (pauci) composita in gemmam vel ramulum foliosum saepe [gemma vel ramulo folioso saepe plerumque] terminata; foliis oblongis obtusis extremis brevioribus, 6 ad ovarium accumulatis, caulinis sessilibus, basi cordatis amplexicaulibus, ceteris petiolatis, omnibus integerrimis, ciliatis; capsula trigona, [illegible] exserta; seminibus obovatis, brunneo-atratis, alveolatis, arcuatis, hilo lato. L. Muhlenbergii Spr. Syst. 2. 106. (1825) non B. Mart.; L. virginicus Comm. Jour. Ac. Phil. VI. 1. p. 105. L. Canadensis Torr. & Torr. Fl. N.Y. 2. 328 (1843) (L. spathiflorus Bentham in herb. (Gray Man ed 2. 482. Chapman Fl. 495

Var β. crassicaulis; caulibus crassis robustioribus, foliis orbiculatis. L. crassicaulis Chap. Flor. South. States p. 495.

Var γ. subtilis, caule (glabrato vel puberulo) foliis ex axillis ramulorum brevium; floribus subbinis Triandris. L. glaucifolius Nuttall Gen. Flor. 1. 191. L. subtilis E. Mey. Syn. Lug. p. 31.

La Harpe Mon p. 135.—

From Canada to Lake Superior, and northward, chiefly along the coast, to Hudson's Bay, & Labrador; in streams in Canada. — A very peculiar and morphologically very important plant, the identity of which has been long very doubtful. Meyer's obscure

2/ original ~~description~~ is not full enough, not to admit
strong doubts about it, doubts; but La Harpe, who wrote
only two years after Meyer's publication, and who
seems to have been well acquainted with Meyer's
personally
gives a full description which can leave no doubt, even if
Meyer Herbar — did not settle all doubts. It difficulty, though
originally the specs was
the original specimens are ~~now~~ deposited in Count Stolberg's Herbar, which
are no doubt also strongly of his J. Muhlenberg —, ~~and even~~
(not probably
obtained from Mühlenberg). several species of our plant,
received later from different sources (e.g. E. Tuckerman &
A. Gray) are likewise present — the Meyerian Herbar
and others, named by him — is his own handwriting
found
are in the Royal Herb at Berlin. How, ~~however~~
has been How, this plant is so peculiar that
H and his unfortunate companion of the species
with J. campanulata — pandurata, "ex
habitum repert" necessarily thought on
botanists on the wrong track;
no one who has ever seen or examined it, will
confound it with any other; is it then at all
probable that Meyer himself should have
erred in his own Herbar ~~confounded~~ placed
a wrong species have mixed up different species?
His original specimens may not exhibit the ~~plants~~
flowers, but that he did not mention the
fact he did allude to them in the accompanying description
of his
J. pandurata; ~~of La Harpe~~ and he does even mention
the number of flowers, ~~of La Harpe speaks~~
~~of the "flores subbini" and~~

J ~~de Harpe~~ Jean de La Harpe's Monographie des
Orni Joncées; ~~was published~~ seems to be little
accessible to botanists; it was published 1825 —
in the 3d Vol of the Mémoires de la Société d'
Histoire naturelle de Paris, pag. 89 — 181, and
proves to be a work of careful critical research
in which I believe I can trace the hand of the
critical

Note

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

97

July 1866

31. b. D. bifarmis : (caule annuus) brevissimo foliosso
ramoso ~~ramosissimo~~ : (1–2 pollicaris) in capitulos pedunculos capillares
~~capillares~~ nimmenos ovatos ; folia pennila supra canescentia
apice vero plana ± longe exserta ; floribus
paucis capitellatis sæpe singulis ; squalis lanceolatis
~~subulatis~~ acuminatis ; extus subtus (primum capitulum ovatum 2–3 lineas
sepala diuidia vix superantibus ; antheris oblongis
flavis subduplo brevioribus ; ~~ovario stylo~~
stigmatibus cum stylo perbrevi ovario ovato acutiusculis
(rudes) : capsula ovata ; semina oblonga
brevia apiculata, testa tenuissime reticulata
D. Sandy soil Meadow Co Cal. Bolander
X. capitellatus ; planta major, floribus 2–3
capitatis 3 millim. longis (sepalis 6, stam. capellis 3)
β. uniflorus – minor, floribus singulis 2 millim.
(sepalis 4 stam. capellis 2). – J. saginoides hog. sup. p. 436
D. Sandy soil, Meadow – Co Cal. Bolander,
both forms ; var β. also – the Siskiyou Mts, and
mosses, Hellebrand. –

~~Of this~~ Only the second ~~form~~ of this curious
species was known to me, when I ~~wrote~~ published in the
type I published the first part of this paper. I then
considered it as the type of a ~~distinct~~ subgenus, Juncellus
allied through its simple flowers to Australia ~~and~~
distinguished by its dimerous ~~flowers~~ from any other
known Juncus (see pp. 426 & 428.). During the past spring,
however, Mr Bolander has succeeded in discovering
the trimerous form, which also has 2 or 3 flowered heads, thus assimilating our
plant to the ordinary form of Juncus, and
especially to the European J. capitatus, and

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

9924.

I can now not doubt, that
destroying Juncaceæ. It must be placed with it. Especially among the sections Graminei, ~~Scirpoidei~~, I. at most
I. marginatus, the dimerous ~~variety~~ variety forming an
anomaly, not otherwise observed in this genus, but
again found among Restiaceæ and Eriocaulaceæ
where Dimerism & Trimerism occurs in the same
genus: whether in the same species, I know not. —

The ~~both~~ joints of the 4th Cittleplet leaves are 2–10 lines long, thin, flat or
but never thicker fleshy, strongly grooved above, ~~chocolate~~ dark brown
and upwards flattened; the stems or, more properly, peduncles
bearing 1 or 2 leaves at their base, naked upwards, bearing
then apex 1–3 flowers in the axils of membranous bracts, that
not half as long as the sepals; flowers 1¼–1½ l. long, sepals
green, with red, often very sharp points, often with
broader, scarious margins; seeds 0.28 l. long, the length being equal to 1/12 or 1/14
diameter; 4 or 5 very fine ribs are visible, and
between them a delicate reticulation.

Var. α is a little larger in all its parts, bracts and
flowers distinctly. The two flowered heads are arranged
exactly like those of I. pelocarpus, with 2 bracts being
the flowers in the axils of a third stem one at the
inner base of the inner flowers. Var β is a little smaller,
½ to 1 inch high; the single flowers have two bracts
at their base, just like the single flowered Juncus; alter-
nating with the ~~3 in the~~ unequal sepals,
the stamens and the (stigmata (sepals?)), & opposite
to the inner sepals, and the valves.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

New varieties — brown flowered variety
Dacc: J. ~~subinflatus~~ dubius / near the mouth of the Delaware,
— Hillsboro — Leidy & Cooper
— J. pelocarpus the St Peters River, Minnesota;
J. alpinus, Oshkoosh Falls, Vermont. Robbins. — Dolbey
has sent specimens ~~from~~ of Sphagnum swamps near Manchester
Highlands.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN